



“Materials Characterization” Seminar
Wednesday, February 28th, 2018
Hennepin Technical College, Brooklyn Park, MN

OFFICERS

Chairman:
Pankaj Gupta
651-756-4812

Vice Chairman:
Joe Hirvela
952-887-7767

Secretary:
Mark Baker
952-892-4278

Treasurer:
Kurt Schenk
763-449-8870

Past Chair:
Mark Weiss
763-557-9090

DIRECTORS

One Year Term:
Russell Holmes
612-625-0559
Farida Kasumzade
952-930-1288
Steve Axdal
651-260-6013

Two Year Term:
Dehua Yang
952-334-5486
Warren Solom
763-546-7862
Lisa Swartz
612-269-2849

Three Year Term:
Margaret Flury
763-526-3396
Abishek Telang
513-923-7295
Michael Bissen
651-408-2021

Office Contact
Joy Clifford
612-501-5992

SEMINAR SCHEDULE

8:00 AM	Registration and display table set-up
8:30 AM	Welcome and introduction MN ASM Chapter Chair, Pankaj Gupta, Abbott
8:40 AM	Session 1 John Newman, Physical Electronics <i>Advancements in Surface Analysis Techniques</i>
9:15 AM	Session 2 Mark Weiss, Crane Engineering <i>An Overview of Fourier Transform Infrared Spectroscopy</i>
9:50 AM	Break and exhibits
10:10 AM	Session 3 Charlie Chan, 3M <i>Emerging ICP-MS Methods for Metallic Nanoparticle Analysis: Particle Size Distribution and Beyond</i>
10:45 AM	Session 4 Neal Hanke, Materials Evaluation <i>AF Testing for Nitinol</i>
11:30 AM	Lunch (Prepared by the HTC Culinary Arts Program) and exhibits
12:45 PM	Session 5 Jeff Fenton & Bill Theilacker, Medtronic <i>Problem Solving in Manufacturing of Medical Devices: Improved Quality through Surface Characterization by XPS, TOF-SIMS, and Raman</i>
1:20 PM	Session 6 Dehua Yang, Ebatco <i>Particle Size Measurement and Chemical Identification</i>
1:55 PM	Session 7 Abhishek Telang, Integer <i>High Energy X-Ray Diffraction for Microstructure and Residual Stress Analysis</i>
2:30 PM	Break
2:55 PM	Session 8 Alex Klatt, Winona State University <i>Material Characterization of Recycled Thermoplastics</i>
3:30 PM	Session 9 Roger Pearson, Aspen Research Corp <i>Principles of Gas Chromatography and Mass Spectrometry (GC-MS)</i>
4:05 PM	Session 10 John Helgeson, Height Differential <i>MN Robotics Team</i>
4:20 PM	Conclusion

Professional Development Hours (6) Certificates Available at 4:20 PM

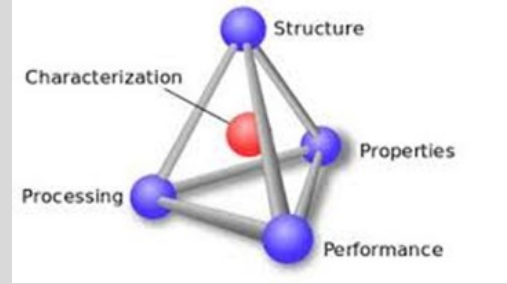
REGISTER at www.mnasm.org

**Register by
February
21st**

MEETING INFORMATION

More on the Seminar...

Do you have a problem with your process or design? It could very well be that the material and associated processes are not behaving as expected. Plan to join us as the Minnesota Chapter of ASM presents our annual seminar on "Materials Characterization" at Hennepin Technical College in Brooklyn Park, Minnesota, on Wednesday, February 28th. The seminar runs from approximately 8:00 AM – 4:20 PM (with breaks for exhibits and an always fabulous lunch prepared by the Hennepin Tech Culinary Program). This seminar will cover material characterization techniques and excellent case studies.



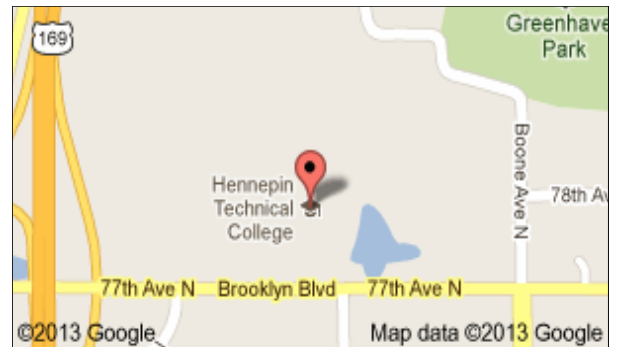
The cost to attend for ASM members is **\$135**. Members from other technical associations and non-members are welcome to attend at the Non ASM Member price of **\$160**. Spread the word by forwarding this meeting notice or going to www.mnasm.org.

Advertisers and vendors are welcome to purchase display tables to market their services or products during check-in, breaks, and lunch. Vendor display tables are **\$180** for sustaining member companies and **\$200** for non-sustaining member companies. The cost includes table rental, seminar admission for one employee of the company purchasing the table, and lunch provided by the HTC culinary students. Registrations for the seminar and vendor display tables must be completed with payment by Wednesday, February 21. The number of vendor tables is limited to the space available, and the space fills quickly. Please register today at www.mnasm.org.

Location

Hennepin Technical College
Auditorium
9000 Brooklyn Blvd
Brooklyn Park, MN 55445

Parking: Please follow signs, and park in Student Lot #4 in back. Do not park in Visitor or Staff parking lots.



SUSTAINING MEMBERS



Join us for the monthly events!

2017-2018 MN Chapter Program Schedule

Meeting Date	Topic	Speaker	Meeting Location
Wednesday September 20th	TOUR of Proto Labs	Proto Labs	2600 Niagara Lane Plymouth, MN 55447
Wednesday October 18th	Student - Industry Networking Event	Prof. Christopher Ellison U of M	U of M Amundson Hall Minneapolis, MN
Wednesday November 15th	"Three-Dimensional Surface Pat- ttering for the Realization of 3D Micro and Nano Devices"	Dr. Jeong-Hyun Cho U of M	Green Mill Plymouth, MN
Wednesday December 6th	Holiday Party "Reliability Concerns in Autono- mous Vehicle Technology"	Luis Flores Crane Engineering	Green Mill Plymouth, MN
Wednesday January 17th	"Novel Techniques for In-Situ Nanomechanical Testing in the Electron Microscope"	Ryan Stromberg Bruker (formerly Hysitron)	Green Mill Plymouth, MN
Wednesday February 28 st	Annual Full Day Seminar "Materials Characterization"	Various Speakers Prof. Dev. Hours Cert. (6)	Hennepin Tech Brooklyn Park, MN
Tuesday March 6th	Annual MinnTS (Technical Symposium)	www.MinnTS.org	Ecolab Schuman Eagan, MN
Wednesday April 18th	Past Chair Night/Scholarships Membership Awards	ASM Trustee Roger Jones Solar Atmospheres	Green Mill Plymouth, MN
Wednesday May 16th	TBD	TBD	Green Mill Plymouth, MN

Scholarship Applications Available

The MN Chapter ASM 2018 scholarship applications are now available. Scholarships will be awarded at the April 18th, 2018 chapter meeting in amounts up to \$1,000. Applicants must meet one of the following qualifications: Minnesota resident; MN Chapter ASM member; or child of member. Applicants must have an intended or declared major in metallurgy or materials science and engineering, having completed 2 years of a 4-year BS degree or 1 year of an Associates degree. Information on application procedure and application is at www.mnasm.org. Students may also contact their college's Metallurgy, Manufacturing, and/or Material Science & Engineering professor. Completed application form and attachments must be postmarked by **March 1st, 2018** and sent to the MN Chapter ASM address to be considered.

SUSTAINING MEMBERS

